

Unique & Niche, Antibody & ELISA

IBL Newsletter
Summer 2024



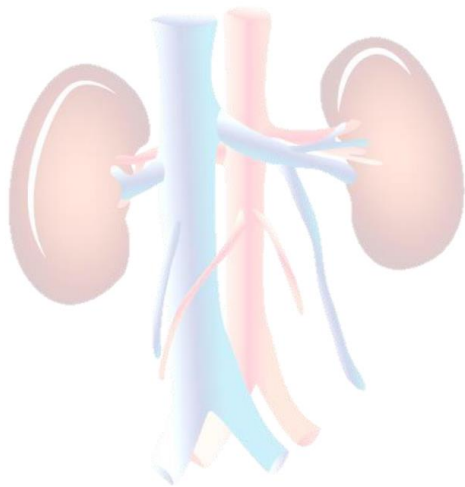
Highlights : Uromodulin

Dear Valued Customers,
We hope this newsletter finds you well. This summer is terribly hot in Japan and we are not able to survive without air-conditioner. Now typhoon season has just started, so autumn is just around the corner. This Newsletter highlights about **uromodulin** research report which attracts attention as a useful kidney biomarker.

【Reference】

1. Serum uromodulin is a novel renal function marker in the Japanese population. Usui R et al. Clin Exp Nephrol. 2021 Jan;25(1):28-36.

2. Serum Uromodulin Is a Possible Auxiliary Diagnostic Tool for Acute Tubular Injury and Acute Interstitial Nephritis: A Case Series. Usui R et al. Case Rep Nephrol Dial. 2022 Oct 11;12(3):185-192.

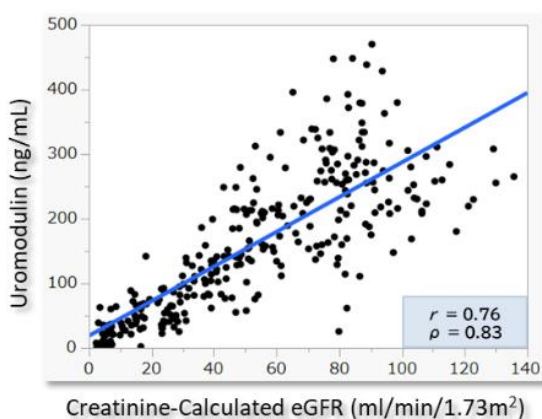


Uromodulin is a highly organ-specific protein that is produced only in the renal tubules of the kidney. Almost all of uromodulin is excreted in the urine, but a small amount is also present in the blood.

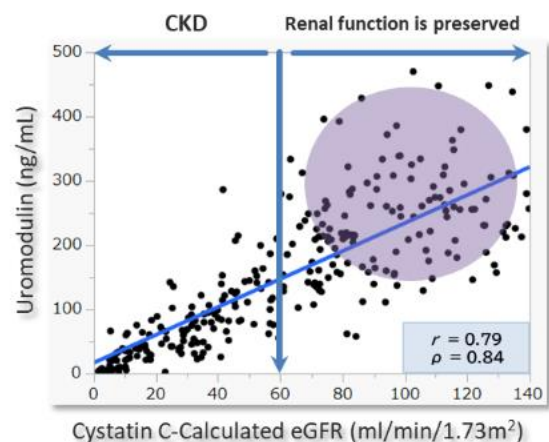
Renal function can be roughly estimated by calculating the estimated glomerular filtration rate (eGFR).

Creatinine or cystatin C values are used to calculate eGFR, but both have blind range before detection, and it can happen that only half of the renal function is present at the time of detection.

Blood uromodulin level is positively correlated with renal function, in other words, the measured value might be expected that the changes of renal function might be possibly intuitively evaluated without calculating eGFR, suggesting that blood uromodulin may be sensitive enough to detect slight declines in renal function. The research report suggested that it can be a good candidate for a preventive healthcare tool by monitoring kidney function before creatinine levels rise.(ref.2)



Data kindly provided: RenoProtect Inc.



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IBL offers wide range of ELISA kits for kidney research.



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